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FORM D

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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OMB APPROVAL

05058707

FORM D

NOTICE OF SALE OF SECURITIES
PURSUANT TO REGULATION D,
SECTION 4(6), AND/OR
UNIFORM LIMITED OFFERING EXEMPTION

SEC US	E ONLY
Prefix	Serial
DATE RE	CEIVED

				1164	117		
Name of Offering (c Nucleonics, Inc Series Preferred Stock							ırchase Series B Convertible
Filing Under (Check box(es) that apply):	Rule 504	☐ Rule 505	⊠ Rule 50	06	Section 4(6) ULOE	,
Type of Filing:	w Filing	Amendment					
		À.	BASIC IDEN	TIFICATI	ON DATA		
1. Enter the information i	equested about the	issuer					
Name of Issuer Nucleonics, Inc.	(chec	k if this is an an	nendment and r	name has ch	anged, and	indicate change.)	
Address of Executive Off 702 Electronic Drive, Ho			and Street, City	, State, Zip	Code)	Telephone Number (In (267) 518-0101	ncluding Area Code)
Address of Principal Busi (if different from Executive		(Number	and Street, Ci	ty, State, Zi	p Code)	Telephone Number (In (if different from Execut	
Brief Description of Busin Research and developme		A interference-	based therape	utics			
Type of Business Organiz	ation						PROCESSED
□ corporation	☐ lim	ited partnership	, already forme	d		other (please specify:	
☐ business trust	☐ lim	ited partnership	, to be formed				JUN 2.3 2005
							THOMSON
Actual or Estimated Date	of Incorporation or	Organization:	0	onth 1	rear	⊠ Actual □ Es	timatedFINANCIAL
Jurisdiction of Incorporat	ion or Organization	•	ter U.S. Postal			For State:	D E

GENERAL INSTRUCTIONS

Federal:

Who Must File: All issuers making an offering of securities in reliance on an exemption under Regulation D or Section 4(6), 17 CFR 230.501 et seq. or 15 U.S.C. 77d(6).

When to File: A notice must be filed no later than 15 days after the first sale of securities in the offering. A notice is deemed filed with the U.S. Securities and Exchange Commission (SEC) on the earlier of the date it is received by the SEC at the address given below or, if received at that address after the date on which it is due, on the date it was mailed by United States registered or certified mail to that address.

Where to File: U.S. Securities and Exchange Commission, 450 Fifth Street, N.W., Washington, D.C. 20549.

Copies Required: Five (5) copies of this notice must be filed with the SEC, one of which must be manually signed. Any copies not manually signed must be photocopies of the manually signed copy or bear typed or printed signatures.

Information Required: A new filing must contain all information requested. Amendments need only report the name of the issuer and offering, any changes thereto, the information requested in Part C, and any material changes from the information previously supplied in Parts A and B. Part E and the Appendix need not be filed with the SEC.

Filing Fee: There is no federal filing fee.

State:

This notice shall be used to indicate reliance on the Uniform Limited Offering Exemption (ULOE) for sales of securities in those states that have adopted ULOE and that have adopted this form. Issuers relying on ULOE must file a separate notice with the Securities Administrator in each state where sales are to be, or have been made. If a state requires the payment of a fee as a precondition to the claim for the exemption, a fee in the proper amount shall accompany this form. This notice shall be filed in the appropriate states in accordance with state law. The Appendix to the notice constitutes a part of this notice and must be completed.

ATTENTION

Failure to file notice in the appropriate states will not result in a loss of the federal exemption. Conversely, failure to file the appropriate federal notice will not result in a loss of an available state exemption unless such exemption is predicated on the filing of a federal notice.

		A. BASIC IDEN	TIFICATION		
2. Enter the information request Each promoter of the is			e past five years:		
☐ Each beneficial owner I the issuer;	having the power to	vote or dispose, or direct th	ne vote or disposition of, 10	0% or more of a cl	ass of equity securities of
☐ Each executive officer	and director of corpo	orate issuers and of corpora	ite general and managing p	artners of partners	hip issuers; and
☐ Each general and mana	ging partner of partn	ership issuers.			
Check Box(es) that Apply:	☐ Promoter	☐ Beneficial Owner		☑ Director	☐ General and/or Managing Partner
Full Name (Last name first, if in Robert J. Towarnicki	ıdividual				
Business or Residence Address 702 Electronic Drive, Horshan		City, State, Zip Code)			
Check Box(es) that Apply:	☐ Promoter	☐ Beneficial Owner	☐ Executive Officer	☑ Director	☐ General and/or Managing Partner
Full Name (Last name first, if in Rajeev Dadoo	,				
Business or Residence Address			150 West Conshahadran	DA 10429 2077	
c/o S.R. One, Limited, Four To Check Box(es) that Apply:	Promoter	Beneficial Owner	Executive Officer	Director	☐ General and/or Managing Partner
Full Name (Last name first, if in Samuelsson, Per	ndividual)				ivialiaging I artife
Business or Residence Address c/o Healthcap, Strandvagen 51					
Check Box(es) that Apply:	☐ Promoter	☐ Beneficial Owner	☐ Executive Officer	☑ Director	☐ General and/or Managing Partner
Full Name (Last name first, if in Barrett, M. James					
Business or Residence Address c/o New Enterprise Associates			et, Baltimore, MD 21202		
Check Box(es) that Apply:	☐ Promoter	☐ Beneficial Owner		☐ Director	☐ General and/or Managing Partner
Full Name (Last name first, if in Richard F. Fitzgerald					
Business or Residence Address 702 Electronic Drive, Horshar		City, State, Zip Code)			
Check Box(es) that Apply:	☐ Promoter	⊠ Beneficial Owner	☐ Executive Officer	☐ Director	☐ General and/or Managing Partner
Full Name (Last name first, if in Moelling, Karin, Ph.D.	•				
Business or Residence Address Gloriastrasse 30/32, P.O. Box		City, State, Zip Code)			
Check Box(es) that Apply:	☐ Promoter	☐ Beneficial Owner	☐ Executive Officer	☐ Director	General and/or Managing Partner
Full Name (Last name first, if ir Pachuk, Catherine	•				
Business or Residence Address 3121 New Parc Circle, Lansda		City, State, Zip Code)			
Check Box(es) that Apply:	☐ Promoter	⊠ Beneficial Owner	☐ Executive Officer	☐ Director	☐ General and/or Managing Partner
Full Name (Last name first, if in Satishchandran, C.					
Business or Residence Address 605 Shepard Drive, Lansdale,		City, State, Zip Code)			
Check Box(es) that Apply:	☐ Promoter	☐ Beneficial Owner	Executive Officer	☐ Director	☐ General and/or Managing Partner
Full Name (Last name first, if in S.R. One, Limited		<u> </u>			
Business or Residence Address Four Tower Bridge, 200 Barr			en, PA 19428-2977		
	/I I 1-111-	1 111.1	anal aguisa afthia ahaat aa		

2. Enter the information request \[\subseteq \text{ Each promoter of the is} \]		; s been organized within the	e past five years:		
		•	ne vote or disposition of, 10	0% or more of a cl	ass of equity securities of
the issuer; Each executive officer	and director of come	orate issuers and of comora	ate general and managing p	artnara of nartnara	hin issuars; and
☐ Each general and mana	=	-	ne general and managing p	armers or parmers	mp issuers, and
Check Box(es) that Apply:	Promoter	☐ Beneficial Owner	☐ Executive Officer	☐ Director	☐ General and/or Managing Partner
Full Name (Last name first, if ir SK Energy & Chemical Inc.	dividual)				Managing Farmer
Business or Residence Address 140A New Dutch Lane, Fairfie		City, State, Zip Code)			
Check Box(es) that Apply:	☐ Promoter	☐ Beneficial Owner	☐ Executive Officer	☐ Director	General and/or Managing Partner
Full Name (Last name first, if in	idividual)				
Giordano, Anthony Business or Residence Address 12341 Ellerbe Road, Shrevepo		City, State, Zip Code)			
Check Box(es) that Apply:	☐ Promoter	☐ Beneficial Owner	☐ Executive Officer	☐ Director	☐ General and/or Managing Partner
Full Name (Last name first, if in Li, Yin-Xiong	idividual)				
Business or Residence Address		City, State, Zip Code)			
2709 Ashland Drive, Durham, Check Box(es) that Apply:	Promoter	☐ Beneficial Owner	☐ Executive Officer	☐ Director	General and/or Managing Partner
Full Name (Last name first, if ir	idividual)				Managing 1 artifer
Business or Residence Address	(Number and Street,	, City, State, Zip Code)		·	
Check Box(es) that Apply:	☐ Promoter	☐ Beneficial Owner	☐ Executive Officer	☐ Director	☐ General and/or Managing Partner
Full Name (Last name first, if ir	idividual)				
Business or Residence Address	(Number and Street,	City, State, Zip Code)			
Check Box(es) that Apply:	☐ Promoter	☐ Beneficial Owner	☐ Executive Officer	☐ Director	☐ General and/or Managing Partner
Full Name (Last name first, if in	ndividual)				
Business or Residence Address	(Number and Street,	City, State, Zip Code)			
Check Box(es) that Apply:	☐ Promoter	☐ Beneficial Owner	☐ Executive Officer	☐ Director	☐ General and/or Managing Partner
Full Name (Last name first, if in	ndividual)				
Business or Residence Address	(Number and Street,	, City, State, Zip Code)		····	
Check Box(es) that Apply:	Promoter	☐ Beneficial Owner	☐ Executive Officer	☐ Director	☐ General and/or Managing Partner
Full Name (Last name first, if in	idividual)				
Business or Residence Address	(Number and Street,	, City, State, Zip Code)			
Check Box(es) that Apply:	☐ Promoter	☐ Beneficial Owner	☐ Executive Officer	☐ Director	☐ General and/or Managing Partner
Full Name (Last name first, if in	ndividual)				<u> </u>
Business or Residence Address	(Number and Street,	City, State, Zip Code)			
Check Box(es) that Apply:	☐ Promoter	☐ Beneficial Owner	☐ Executive Officer	☐ Director	☐ General and/or Managing Partner

A. BASIC IDENTIFICATION

1. Has t	he issuer so		he issuer int								Ye	_
				Answer	also in App	endix, Colu	mn 2, if fili	ng under UI	OE.			
2. What	is the minir	num investi	ment that wi	ll be accept	ed from any	individual?					<u>N/A</u>	
3. Does	the offering	permit join	it ownership	of a single	unit?						Ye	
simil is an brok the i	ar remunera associated er or dealer	ation for sol person or a If more th for that brok	icitation of p gent of a broam five (5) p ker or dealer	purchasers in the purchasers in the purchasers of the purchasers o	in connectio ler registere	n with sales d with the S associated	s of securitie SEC and/or	es in the off with a state	ering. If a por states, li	ny commission person to be lest the name of you may set	isted f the	
Business	or Residen	ce Address	(Number an	d Street, Ci	ty, State, Zip	Code)				*** <u>*</u> ********************************		
Vame of	Associated	Broker or I	Dealer									
States in	Which Pers	son Listed H	las Solicited	or Intends	to Solicit Pu	ırchasers		,			,	
(Ch	eck "All Sta	ates" or che	ck individua	1 States)			***************************************				🔲 Al	l States
AL] IL] MT] RI] ^{Tull} Nan	[AK] [IN] [NE] [SC] ne (Last nan	[AZ] [IA] [NV] [SD]	[AR] [KS] [NH] [TN]	[CA] [KY] [NJ] [TX]	[CO] [LA] [NM] [UT]	[CT] [ME] [NY] [VT]	[DE] [MD] [NC] [VA]	[DC] [MA] [ND] [WA]	[FL] [MI] [OH] [WV]	[GA] [MN] [OK] [WI]	[HI] [MS] [OR] [WY]	[ID] [MO] [PA] [PR]
			(Number and	d Street, Cit	ty, State, Zip	Code)						
lame of	Associated	Broker or I	Dealer									
tates in	Which Pers	ons Listed	Has Solicited	d or Intends	to Solicit P	urchasers						
(Ch	eck "All St	ates" or che	ck individua	l States)							☐ Al	1 States
AL] IL] MT] RI]	[AK] [IN] [NE] [SC] ne (Last nan	[AZ] [IA] [NV] [SD] ne first, if in	[AR] [KS] [NH] [TN] dividual)	[CA] [KY] [NJ] [TX]	[CO] [LA] [NM] [UT]	[CT] [ME] [NY] [VT]	[DE] [MD] [NC] [VA]	[DC] [MA] [ND] [WA]	[FL] [MI] [OH] [WV]	[GA] [MN] [OK] [WI]	[HI] [MS] [OR] [WY]	[ID] [MO] [PA] [PR]
3usiness	or Residen	ce Address	(Number and	d Street, Cit	ty, State, Zip	Code)						
Name of	Associated	Broker or I	Dealer									
states in	Which Pers	ons Listed	Has Solicited	d or Intends	to Solicit P	urchasers						
(Ch	eck "All St	ates" or che	ck individua	l States)			*				☐ Al	l States
[AL] [IL] [MT] [RI]	[AK] [IN] [NE] [SC]	[AZ] [IA] [NV] [SD]	[AR] [KS] [NH] [TN]	[CA] [KY] [NJ] [TX]	[CO] [LA] [NM] [UT]	[CT] [ME] [NY] [VT]	[DE] [MD] [NC] [VA]	[DC] [MA] [ND] [WA]	[FL] [MI] [OH] [WV]	[GA] [MN] [OK] [WI]	[HI] [MS] [OR] [WY]	[ID] [MO] [PA] [PR]

(Use blank sheet, or copy and use additional copies of this sheet, as necessary) 4 of 9

C. OFFERING PRICE, NUMBER OF INVESTORS, EXPENSES AND USE OF PROCEEDS 1. Enter the aggregate offering price of securities included in this offering and the total amount already sold. Enter "0" if answer is "none" or "zero." If the transaction is an exchange offering, check this box [] and indicate in the columns below the amounts of the securities offered for exchange and already exchanged. Aggregate Amount Already Type of Security Offering Price Sold Debt Equity (Series B Convertible Preferred Stock) 34,741,072 35,473,458 4,686,885 (Series B-1 Convertible Preferred Stock) 4,686,885 ☐ Common ☐ Preferred Convertible Securities (including warrants)Warrants to Purchase Series B Stock 1,373,047 Partnership Interest Other (Specify) 39,427,957 Total 41,533,390 Answer also in Appendix, Column 3, if filing under ULOE. 2. Enter the number of accredited and non-accredited investors who have purchased securities in this offering and the aggregate dollar amounts of their purchases. For offerings under Rule 504, indicate the number of persons who have purchased securities and the aggregate dollar amount of their purchases on the total lines. Enter "0" if answer is "none" or "zero." Aggregate Number of Dollar Amount Investors of Purchases Accredited Investors (Assumes exercise of the Warrants)..... 40,801,004 Non-accredited Investors 0 0 Total (for filings under Rule 504 only) N/A N/A Answer also in Appendix, Column 4, if filing under ULOE 3. If this filing is for an offering under Rule 504 or 505, enter the information requested for all securities sold by the issuer, to date, in offerings of the types indicated, in the twelve (12) months prior to the first sale of securities in this offering. Classify securities by type listed in Part C - Question 1. Type of Offering Type of **Dollar Amount** Security Sold Rule 505..... N/A Regulation A N/A N/A N/A Rule 504..... N/A Total N/A N/A 4. a. Furnish a statement of all expenses in connection with the issuance and distribution of the securities in this offering. Exclude amounts relating solely to organization expenses of the issuer. The information may be given as subject to future contingencies. If the amount of an expenditure is

not know, furnish an estimate and check the box to the left of the estimate. Transfer Agent's Fees Printing and Engraving Costs Legal Fees.... \boxtimes 235,000 Accounting Fees Engineering Fees Sales Commissions (specify finders' fees separately..... П Other Expenses (Identify) Blue Sky fees X 1,150 Total \boxtimes \$ 40,564,854

,		gregate offering price given in response to Part C - Queonse to Part C - Queonse to Part C - Question 4.a. This difference is the "a						
	gross proceeds to the issuer."					\$		40,564,854
5.	for each of the purposes shown. If the check the box to the left of the estimate	sted gross proceeds to the issuer used or proposed to amount for any purpose is not known, furnish an estimate. The total of the payments listed must equal the a response to Part C – Question 4.b above.	ate and					
]	Payments to Officers, Directors, & Affiliates			Payments to Others
	Salaries and fees		\boxtimes	\$_	2,340,764		\$ _	8,661,145
				\$_		_ 🗆	\$_	
	Purchase, rental or leasing and ir	nstallation of machinery and equipment		\$ _		_ 🛛	\$_	1,941,700
	Construction or leasing of plant	buildings and facilities		\$_		_ 🛛	\$_	1,039,374
	offering that may be used in	s (including the value of securities involved in this exchange for the assets or securities of another		\$		_	¢	
	1 0 ,			\$_ \$		_ 🗆	°-	214,410
	* *			\$_ \$		- 🖾	-\$- \$	16,331,874
		d Clinical Drug Development)		\$_ \$		- 🖾	\$ \$	10,035,587
	Other (specify). (Frecument un	a Cunttui Drug Developmenty		\$_ \$		_ 🖂	⊸* \$	10,033,367
				\$			\$	
	Column Totals			\$_ \$	2,340,764	_ 🖂	\$_ \$	38,224,090
		otals added)		Ψ_	2,340,704	- ^{K3}	Ψ_	40,564,854
	Total Layments Disted (column t	ouis added)			63	*		40,304,034
		D. FEDERAL SIGNATURE	Manager St.	28.351	rrossousser (Section 2017) asset (1917)	V TV T	Garage Co.	retrant to a Property
co fu	ne issuer has duly caused this notice to be institutes an undertaking by the issuer to inshed by the issuer to any non-accredit	e signed by the undersigned duly authorized person. If furnish to the U.S. Securities and Exchange Commission ed investor pursuant to paragraph (b)(2) of Rule 502.	this notic	ce is	filed under Rule	e 505, tes staff,	he fo	llowing signature nformation
	suer (Print or Type)	Signature Administration of the Control of the Cont	/ Date June		2005			
	ame of Signer (Print or Type)	Title of Signer (Print or Type)						
	chard F. Fitzgerald	Vice President of Finance and Administratio	n					

C. TFERING PRICE, NUMBER OF INVESTORS, EXPENSES AND USE OF PROCEEDS

ATTENTION

Intentional misstatements or omissions of fact constitute federal criminal violations. (See 18 U.S.C. 1001.)

	- Secretary of the Control of	and a Transfer of the commencer of the c		MANAGEMENT AND CONTROL OF THE CONTRO		NAME OF THE OWNER OF THE OWNER.
<u> </u>	II providence o providence	<u> </u>	. STATE SIGNATURE		10111111111111111111111111111111111111	<u>Principlist</u>
	s any party described in 17 CFR 230.2 provisions of such rule?				Yes □	No ⊠
		See Apper	ndix, Column 5, for state response			
	The undersigned issuer hereby underta 239.500) at such times as required by s		state administrator of any state in	which this notice is filed, a not	tice on Form	D (17 CFR
3. 7	The undersigned issuer hereby underta	kes to furnish to the sta	ate administrators, upon written re	equest, information furnished b	y the issuer to	offerees.
]	The undersigned issuer represents that Exemption (ULOE) of the state in whi of establishing that these conditions ha	ch this notice is filed a				
	issuer has read this notification and knorized person.	nows the contents to b	e true and has duly caused this no	otice to be signed on its behalf	by the unders	igned duly
	er (Print or Type)	Signature	tal Welson H	Date June 14, 2005		
<u>Nuc</u> Nan	leonics, Inc. ne of Signer (Print or Type)	Title of Signe	r (Print or Type)	/		
n. 1	nard F. Fitzgerald		nt of Finance and Administratio			

Instruction:

Print the name and title of the signing representative under his signature for the state portion of this form. One copy of every notice on Form D must be manually signed. Any copies not manually signed must be photocopies of the manually signed copy or bear typed or printed signatures.

APPENDIX

1 .		2	3		4				5		
	Intendition to non-a	I to sell ccredited s in State -Item 1)	Type of security and aggregate offering price offered in state (Part C-Item 1)	Type of investor and amount purchased in State (Part C-Item 2)					Disqualification under State ULOE (if yes, attach explanation of waiver granted) (Part E-Item 1)		
State	Yes	No	Series B Preferred; Series B-1 Preferred & Warrants to Purchase Series B Stock	Number of Accredited Investors	Amount	Number of Non-Accredited Investors	Amount	Yes	No		
AL											
AK											
AZ											
AR											
CA		X	\$8,500,000	2	\$8,500,000	0	0		X		
со											
СТ											
DE							-				
DC											
FL		X	\$51,063	1	\$51,063	0	0		X		
GA											
ні											
Ю											
ா											
IN											
IA											
KS											
KY											
LA											
ME							-				
MD		Х	\$17,400,000	2	\$17,400,000	0	0		Х		
MA											
MI											
MN											
MS											
мо											

APPENDIX

1		2	3		4				5 ification
	Intend to non-a investor	l to sell ccredited s in State -Item 1)	Type of security and aggregate offering price offered in state (Part C-Item 1)		Type of investor and amount purchased in State (Part C-Item 2)				
State	Yes	No	Series B Preferred; Series B-1 Preferred & Warrants to Purchase Series B Stock	Number of Accredited Investors	Amount	Number of Non-Accredited Investors	Amount	Yes	No
MT									
NE									
NV									
NH									
NJ		Х	\$411,735	1	\$411,735	0	0		Х
NM							_		
NY									
NC									
ND									
он									
ок									
OR									
PA		Х	\$14,438,206	4	\$14,438,206	0	0		X
RI									
sc									
SD									
TN									
TX									
UT									
VT							<u>-</u>		
VA									
WA									
wv									
WI									
WY									
PR									